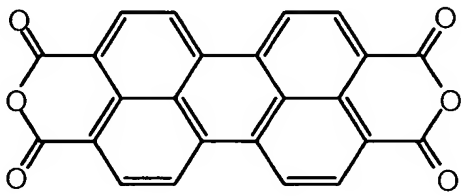
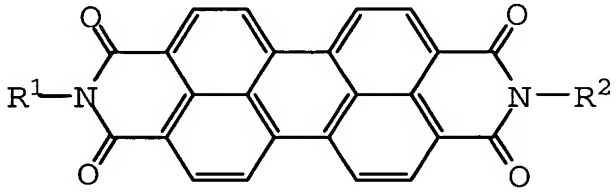
WHAT IS CLAIMED IS:

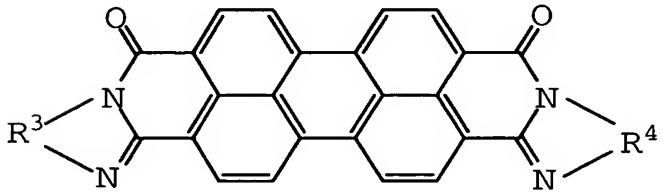
1. A black perylene-based pigment comprising a solid solution composed of at least two compounds selected from the group consisting of compounds represented by the following formulae (I) to (IV):



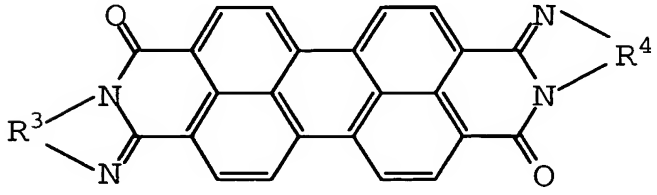
(I)



(II)



(III)



(IV)

wherein R^1 and R^2 may be same or different and are

independently $-(CH_2)_n-X$, wherein X is hydrogen atom, methyl group, alkoxy group, hydroxy group, phenyl group, 4'-(azophenyl)phenyl group, alkylphenyl group, alkoxyphenyl group, phenol group, halogenated phenyl group, pyridyl group, alkylpyridyl group, alkoxypyridyl group, halogenated pyridyl group, pyridylvinyl group and 1-naphthyl group, and n is an integer of 0 to 5; and R^3 and R^4 may be same or different and are independently phenylene group, alkylphenylene group, alkoxyphenylene group, hydroxyphenylene group, halogenated phenylene group, pyridinediyl group, alkylpyridinediyl group, alkoxypyridinediyl group, halogenated pyridinediyl group and naphthalenediyl group, said R^3 and R^4 being bonded to adjacent positions of the aromatic ring, respectively.

2. A black perylene-based pigment according to claim 1, wherein the solid solution comprises at least one compound (A) selected from the group consisting of the compounds represented by the formulae (I) and (II), and at least one compound (B) selected from the group consisting of the compounds represented by the formulae (III) and (IV).

3. A black perylene-based pigment according to claim 2, wherein the content of the compound (A) is 5 to 90 mol% and the content of the compound (B) is 95 to 10 mol%.

4. A process for producing a black perylene-based pigment, comprising:

calcining a mixture composed of at least two compounds selected from the group consisting of the compounds represented by the formulae (I) to (IV) at a temperature of 100 to 600℃ in vacuum or in an inert gas atmosphere.